BRUHAT BANGALORE MAHANAGARA PALIKE
DASARAHALLI ZONE

Name of Work:- Detailed estimate for Improvements to Main road & cross roads at Abbigere, Karekallu area, in Ward no. 12, in Shettyhalli Sub-Division

Est. Cost Rs.47.00 Lakhs

Sl. No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
1	Removing B.S. slab of Drain and stacking Page No. 28/ Item No. 5.32/ PWD SR 2013-14								
	From WIMAC circle to Abbigere circle		1	310	1.8		558		
			1	174	1.8		313.2		
							871.2		
			Less 10% missing & broken slab				87.12		
							784.08	50.11	39290
	Basic Rate	46.40							
	Area Weightage 8%	3.71							
	Total	**50.11**							
2	Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m. excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications.. Page No. 152/ Item No. 19.1/ PWD SR 2013-14								
	Desilting	Sqm	1	310.00	0.6	0.6	111.6		
a	From WIMAC circle to Abbigere circle		1	174.00	0.60	0.60	62.64		
							174.24	65.88	11479.00
	Basic Rate	61.00							
	Area Weightage 8%	4.88							
	Total	**65.88**							
3	Refixing stone slabs of drains and pointing in C.M (1:3).Page No. 152/ Item No. 19.1/ PWD SR 2013-14								
		Sqm							
a	From WIMAC circle to Abbigere circle						784.08	70.04	54916.96
	Basic Rate	64.85							
	Area Weightage 8%	5.19							
	Total	**70.04**							
4	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. Page No. 28/ Item No. 5.31/ PWD SR 2013-14								
	From WIMAC circle to Abbigere circle						87.12		
			1	100	1.2		120		
							207.12	343.44	71133

	Basic Rate	318.00							
	Area Weightage 8%	25.44							
	Total	**343.44**							
5	KSRB 5-14 : Providing and constructing precast concrete solid blocks with compressive strength not less than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications.Page No. 152/ Item No. 19.1/ PWD SR 2013-14								
a	From WIMAC circle to Abbigere circle	Sqm	1	310.00	0.40		**124**		
			1	210.00	0.40		**84**		
			2	220.00	0.40		**176**		
							384.00	924.48	**355000.00**
	Basic Rate	856.00							
	Area Weightage 8%	68.48							
	Total	**924.48**							
6	Providing and constructing non-load bearing wall with cement concrete solid blocks with compressive strength not less than 35 Kg/sqm with cement mortar 1:4 (Jamb, closer blocks) withblocks of size 40x10x20cms. (lxbxh) conforming to I.S : 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications..Page No. 28/ Item No. 5.28/ PWD SR 2013-14								
a	From WIMAC circle to Abbigere circle	Sqm	1	310.00	0.40		**124**		
			1	210.00	0.40		**84**		
			2	220.00	0.40		**176**		
							384.00	663.12	**254638.00**
	Basic Rate	614.00							
	Area Weightage 8%	49.12							
	Total	**663.12**							
7	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete..Page No. 28/ Item No. 5.29/ PWD SR 2013-14								
	From WIMAC circle to Abbigere circle	Sqm					**1120.00**	267.84	**299981.00**
	Basic Rate	248.00							
	Area Weightage 8%	19.84							
	Total	**267.84**							
8	Supply & fixing precastreinforced concrete covering slab 10cm thick including cost of all materials as per design and drawing , material cost,transportation,hire charges of machinery machine cutting the vertical faace to get plain even surface etc., complete with all leads and lift conveyance charges,labour charges,curing complte as per directions of the engineer incharge work.Data rate complte as per specifications. Page No. 28/ Item No. 5.29/ PWD SR 2013-14								

●	From WIMAC circle to Abbigere circle	Sqm	1	310.00	0.90		279.00		
			1	210.00	0.90		189.00		
			2	220.00	0.90		396.00		
							864.00	1600.00	1382400.00
9	Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.64cum and fine aggregtes@ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 affirmed-2008, machine mixed, concrete laid in layers not exceeding15 cms. thick, well compacted, in foundation,plinth and cills, includingcost of all materials, labour, HOM of machinery, curing complete as per specifications..Page No. 12/ Item No. 4.5/ PWD SR 2013-14								
a	From WIMAC circle to Abbigere circle	Sqm	2	310.00	0.20	0.10	12.4		
			2	210.00	0.20	0.10	8.4		
			4	220.00	0.20	0.10	17.6		
							38.40	5323.32	204415.00
	Basic Rate	4929.00							
	Area Weightage 8%	394.32							
	Total	**5323.32**							
10	Scarifying existing stone metal layer upto 75mm thick along with their bituminous surface, picking up scarified materials and stacking of old serviceable materials with lead of 100 m. sequential spreading of the salvaged aggregates with fresh aggregates on prepared base and consolidating as per water bound macadam specifications including cost of all labour, HOM of machineries complete as per specifications. Page No. 175/ Item No. 21.3/ PWD SR 2013-14								
a	From WIMAC circle to Abbigere circle	Sqm	1	135.00	5.00		675.00		
			1	50.00	5.00		250.00		
							925.00	72.36	66933.00
	Basic Rate	67.00							
	Area Weightage 8%	5.36							
	Total	**72.36**							
11	KSRB 2-1.1 : Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications. KSRB 2-1.2 – do – Hard soil(P.5, I. No..2.2 PW, P & IWTD -SR 2013-14)								
a	From WIMAC circle to Abbigere circle	Cum	1	135.00	5.00	0.25	168.75		
			1	50.00	5.00	0.25	62.50		
	Basic Rate	164.00					231.25	177.12	40959.00
	Add Area Weightage 8%	13.12							
	Total	**177.12**							

12	KSRRB M400- Wet Mix Macadam - KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (P.167/I.20.18 PW, P & IWTD - SR 2013-14)								
		Cum	1	135.00	5.00	0.25	168.75		
a	From WIMAC circle to Abbigere circle		1	50.00	5.00	0.25	62.50		
							231.25	1121.04	259241.00
	Basic Rate	1038.00							
	Add Area Weightage 8%	83.04							
	Total	**1121.04**							
13	KSRRB M500-6. Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 Page No. 175/ Item No. 21.6/ PWD SR 2013-14								
		Sqm	1	135.00	5.00		675.00		
a	From WIMAC circle to Abbigere circle		1	50.00	5.00		250.00		
							925.00	44.28	40959.00
	Basic Rate	41.00							
	Add Area Weightage 8%	3.28							
	Total	**44.28**							
14	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH / Chapter 5. (Page No. 175, Item No. 21.1, PWD SR 2013-14								
		Sqm							
a	From WIMAC circle to Abbigere circle		1	220.00	6.30		1386.00		
			1	110.00	4.80		528.00		
							1914.00	2.59	4961.00
	Basic Rate	2.40							
	Add Area Weightage 8%	0.19							
	Total	**2.59**							
15	KSRRB 500-7. Providing and applying tack coat on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5 Page No. 176/ Item No. 21.7/ PWD SR 2013-14								
		Sqm	1	220.00	6.30		1386.00		
a	From WIMAC circle to Abbigere circle		1	110.00	4.80		528.00		
							1914.00	17.93	34314.00
	Basic Rate	16.60							

	Add Area Weightage 8%	1.33							
	Total	**17.93**							
16	KSRRB 500-11. Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant 40 tonne capacity, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, 50 /75mm compacted thickness with 3.3% bitumen but excluding cost of primer / tack coat with lead upto 1km including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH /Chapter 5. With 60/70 grade bitumen. Page No. 176/ Item No. 21.11.2/ PWD SR 2013-14								
		Cum	1	135.00	5.50	0.050	**37.13**		
a	From WIMAC circle to Abbigere circle		1	50.00	5.00	0.050	**12.50**		
							49.63	6733.80	**334165.00**
	Basic Rate	6235.00							
	Add Area Weightage 8%	498.80							
	Total	**6733.80**							
17	KSRRB M500-19. Providing and laying bituminous concrete with 100-120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to 5.6% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 50930-45mm compacted thickness (Grading II) with 6% Bitumen 60/70 (P.179/I.21.22.2) PW, P & IWTD - SR 2013-14)								
		Cum	1	220.00	6.30	0.03	41.58		
a	From WIMAC circle to Abbigere circle		1	110.00	4.80	0.03	15.84		
							57.42	11452.32	**657592.00**
	Basic Rate	10604.00							
	Add Area Weightage 8%	848.32							
	Total	**11452.32**							
18	Carriage of mixed materials 10kms . For items of Sl. No (1) rs. 5.20 per cum/km. Page No. 186/PWD SR 2013-14								
	Item (11) + item (15) + item (16)						**338.30**	56.16	**18999.00**
	Basic Rate	52.00							
	Add Area Weightage 8%	4.16							
	Total	**56.16**							

19	KSRRB M800-13. Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and lying of hot applied Thermoplastic Compound 2.5mm thick including Reflectrising Glass Beads at 250 gms per Sqm area. thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803. Page No. 197/ Item No. 24.15/ PWD SR 2013-14								
	Lane Line	Sqm	2	320.00	0.10	-	64.00		
	Centre Line	0.50	1	160.00	0.10	-	16.00		
							80.00	471.96	37757.00
	Basic Rate	437.00							
	Area Weightage 8%	34.96							
		471.96							
20	Disposal of debris to the final place of disposal with all lead and lift and as direction by the engineer in charge of the work, lead **10 Km** a)Basic rate for haulage of materials as per item No. 17.4/KSRRB : M100-4.1 ..... Rs. **2.00** Tonne/Km b)Average earth of work **1.28** Tonne/Km for Rs. **2.00**/Km c)Add loading and unloading Item No. 17.1 KSRRB M 100-1 Rs. **62.20** (P.150. I.no.18.57/1, PWD SR 2013-14)								
	Qty Vide Item No=1	Cum					375.00		
	Qty Limited to						375.00	72.71	27266.00
	Basic Rate (Rs.2.0 x 1.28 x 2 kms)	5.12							4196379.50
	Loading and Unloading Charges	62.20							
		67.32			KRIDL charges +1% →				41964
	Area Weightage 8%	5.39							
	Total	**72.71**				QC 1%		—	41964
									32
21	Miscellaneous and other unforseen charges.								
								Total	**4700000.00**

(Rupees Fortyseven Lakhs Only)

CERTIFICATE

1 The work sport has been inspected and the work found to be necessary
2 This estimate is prepared as per the PWD S.R of 2013-14
3 The provisions made in estimate are adequate and essential
4 This area comes under BBMP limits

Ravi. N.K.

Asst. Engineer
Ward No-12

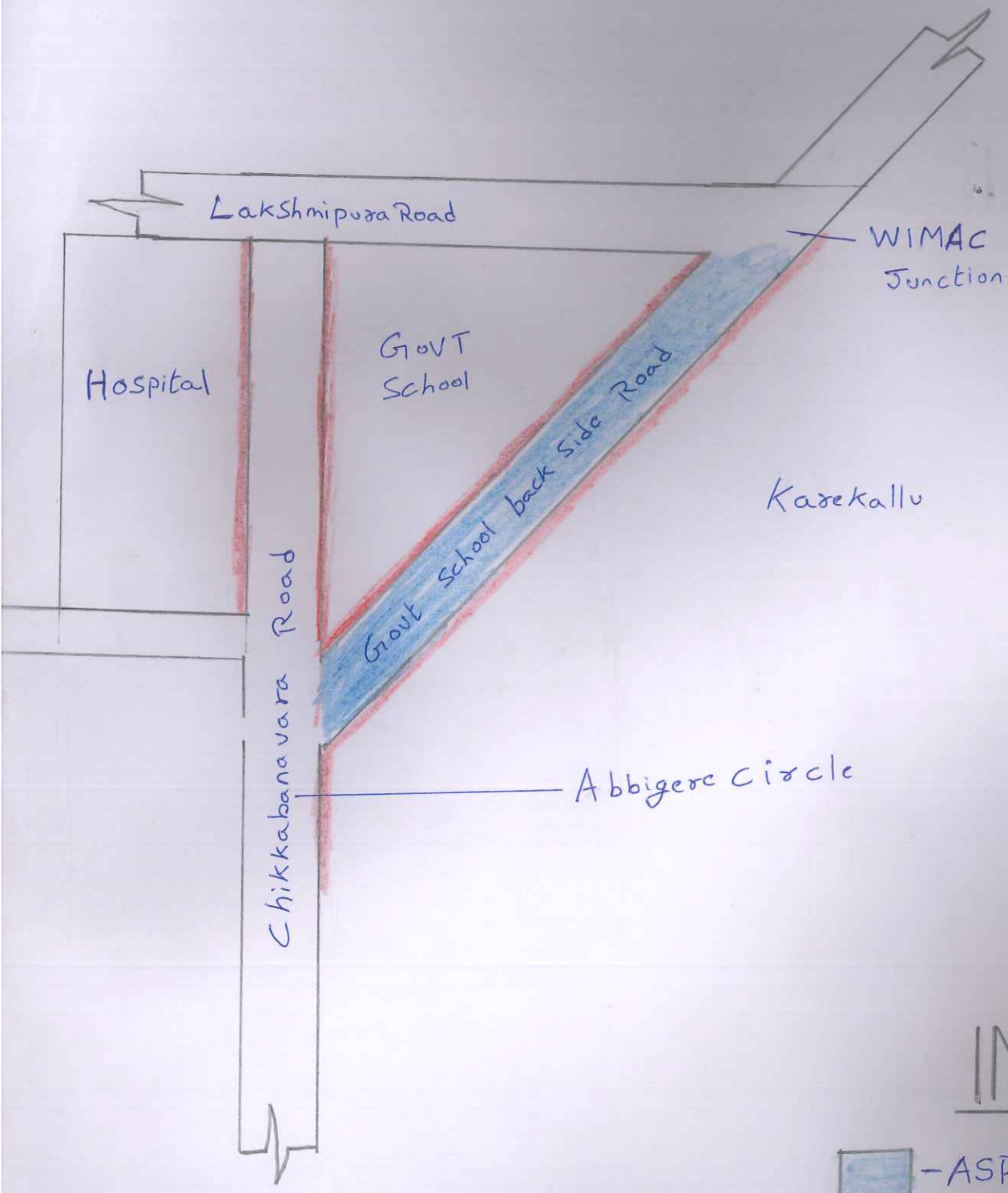
Asst.Executive Engineer
Shettyhalli Sub-Division
BBMP

Executive Engineer
Dasarahalli Zone
BBMP

ನಂ. AC(DH) / AS / 877 / 13-14 A/S ದಿನಾಂಕ : 04/03/2014
ರೂ. 47.00 Lakhs (Rupees Forty Seven Lakhs only)
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ
Page No. 00
SL. No. 877
ಅಪರ ಆಯುಕ್ತರು
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು

CE/DZ/TS/47/13-15
ನಂ. Pg No.: 70 ದಿನಾಂಕ : 20/5/2014
ರೂ. 47,00000/- (ಕೂ: ನಲವತ್ತ ಏಳು ಲಕ್ಷಗಳು)
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.
ತಾಂತ್ರಿಕ ಸಹಾಯಕರು
ಮುಖ್ಯ ಅಭಿಯಂತರರು,
ಬಿ.ಬಿ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

Improvements to main & cross roads at Abbigere Karekallu area in Ward No. 12, in Shettyhalli Sub-Division.



INDEX

- ASPHALTING

Ravi. N. K.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು